



## Salient Features :

- BEML B6D125 Diesel Engine
- Hydraulically Actuated
- Sturdy Construction of booms & track frame
- Heavy duty constant mesh transmission
- Hydraulically actuated counter weights
- Automatic Kickout device for boom
- Pilot operated work attachment

Flywheel Power (net) : 134 kW (180 hp) @ 1850 rpm Max. Lifting Capacity : As per lifting performance curve.

IIIIS

www.bemlindia.in

# BP41 PIPE LAYER

## Salient Features :

**BEML B6D125 Diesel Engine :** For sustained power and fuel economy

Hydraulically actuated, oil cooled main clutch

**Sturdy Construction :** The boom is welded box section and operated by wire cables. Track-roller frames are made of high-tensile steel for maximum rigidity.

**Transmission :** Heavy duty, constant mesh transmission with helical gears.

**Steering Clutches :** Hydraulically actuated, self-adjusting oil cooled steering clutches for long life. Steering brakes are also oil cooled.

Commanality of parts with BEML BD80 makes it easy for servicing and replacement of parts besides proven reliability Faster operation due to two raising and lowering speeds. Automatic kick-out device for boom

Hydraulically actuated counterweights for increased stability

**Lifting Performance :** Maximum lifting capacity as per lifting performance curve to cater to wide range of pipe laying work with joystick control.





Make	BEML	
Model	B6D125	
Туре	Water cooled, 4 cycle overhead valve, direct	
	injection diesel engine	
Net power (fhp)	134 kW (180hp) @ 1850 rpm ISO:9249	
Maximum torque	80.0 kg-m @ 1100 rpm	
No. of cylinders	6, inline	
Bore x Stroke	∞ 125 x 150 mm	
Displacement	0.011 m <sup>3</sup>	
Electricals		
Alternator	24 V, 55A	
Starting motor	24 V, 7.5 kW	
Battery	2 x 12 V, 200 Ah	

### TRANSMISSION

Transmission Syste	em Direct Drive	
Main clutch type	Wet multiple disc over centre engagement, hand	
	operated with inertia brake & hydraulic booster	
Transmission		
Туре	Helical gear, constant mesh	
Bevel gear	Spiral type, single reduction	۱
Final Drive		
Туре	Spur gear, double reduction	1
Total reduction	17.187	
Gear Shift	5 forward, 4 reverse	
Travel speeds m/se	c (km/h)	
Range	Forward	Reverse
1st	0-0.67 (0-2.4)	0-0.86 (0-3.1)
<u>2nd</u>	0-0.94 (0-3.4)	0-1.25 (0-4.5)
3rd	0-1.44 (0-5.2)	0-1.86 (0-6.7)
4th	0-2.05 (0-7.4)	0-2.67 (0-9.6)
5th	0-2.78 (0-10.0)	
BRAKES		
Туре	Wet contracting band. Foot by efficient linkages for light	

#### **STEERING SYSTEM**

Туре	Wet, multiple-disc foot operated with hydraulic
	together with spring type booster
Control	Wet contracting type, foot operated with back-up
	booster
FILT	
Engine	Replaceable cartridge type filter for lubrication as

•	well as for fuel line.
Transmission	One magnetic oil strainer and one replaceable, element bypass filter is provided
Steering & Braking	Magnetic oil strainer is common to transmission, steering & braking system. Separate replaceable element type filter is provided for steering & braking
Hydraulic System	Magnetic plug & replaceable element type filter is provided.

MASS

Shipping Mass (Basic tractor with lubricating hydraulic, cooling systems and 10% of fuel capacity) 29,870 kg

#### STANDARD EQUIPMENT

Hook & Boom winch 5.5m boom with cables Counter weight mechanism Hydraulic track adjusters Adequate lighting system Under guards

#### **OPTIONAL ATTACHMENTS**

Insulated Canopy Safe Load Indicator System Long Boom (6.2m) Emergency Free Fall Winch

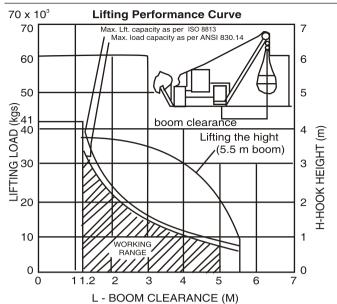
#### HYDRAULIC SYSTEM

Hydraulic Pump (winch	)	
Туре	Gear pump	
Capacity	335.5 l/min	
Relief pressure	13.73 MPa (140kg/cm²)	
Hydraulic pump (Cou	nter weight)	
Туре	Tandem pump	
Capacity	85 //min	
Relief pressure	13.73 MPa (140kg/cm <sup>2</sup> )	
Hydraulic Cylinder		
Туре	Double acting piston	
Counter weight	2 cylinders	
Bore x Stroke	∅ 90 x 525 mm	

#### DIMENSIONS & OPERATING DATA

4890 mm
3425 mm
2935 mm
See chart
1.22 m to 5.5 m
1.22 m to 6.2 m
6.5 m/min
13.0 m/min
6.5 m/min
13.0 m/min
Welded box section and operated by
wire cables
5500 mm (Optional 6200 mm)
550 kg (585 kg)
Hydraulically operated, two speed, reversible
Powered continuously by hydraulic pump
Automatic braking system
Built in planetary system
⊘ 323.85 x 431.8 mm
<sup>⊘</sup> 323.85 x 431.8 mm
∞ 18 mm x 85 m
∞ 18 mm x 60 m
Segmented plate type, Hydraulically actuated
4680 kg ± 6%
3
8





#### Lifting Performance (as per ISO 8813)

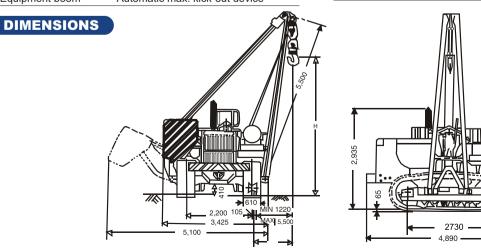
Based on the firm level ground operation and standard counter weight fully extended 5.5 m boom, 18 mm dia wire rope 21400 kg minimum breaking strength 6-part load line, 4-part boom line.

#### UNDER CARRIAGE

Suspension	Non-Oscillation type equalizer bar		
Track Frame	Box section, high tensile strength steel construction		
Track Rollers	6 nos. each side		
Carrier Rollers	2 nos. each side		
Track Shoes	38 nos. each side		
Track Pitch	2200 mm		
Grouser-Height	65 mm		
Shoe width	610 mm (std)		
Ground Pressure	85.3 kPa (0.87 kg/cm <sup>2</sup> )		
Ground contact area	3.330 m <sup>2</sup>		
_			

#### COOLANT & LUBRICANTS CAPACITY (Refill)

System	Litres	
Cooling System	65	
Crank case	34	
Fuel Tank	350	
Main Clutch	25	
Transmission, bevel gear torque converter &		
steering	75	
Final drive (each side)	36	
Hydraulic Tank	110	



Material and specifications are subject to change without notice, Illustrations may include optional equipment & accessories



RIPE

<u>U YA</u>B

## **TECHNICAL SPECIFICATIONS**

## बी ई एम एल लिमिटेड BEML LIMITED

Schedule 'A' Company under Ministry of Defence, Govt. of India

Business	Cc
Network	BE

Corporate Office BEML Soudha, 23/1, 4th Main, S.R. Nagar, Bangalore – 560 027

T + 91 80 22963240, 22963250

F+918022963278/516/280/164

E-mail: office.cpd@beml.co.in corpcomm@beml.co.in

#### **REGIONAL OFFICES**

Bangalore 4th Floor, Unity Building, J. C. Road, Bangalore - 560 002 Karnataka	T +91 97413 51588 E-mail: mg@beml.co.in
Bilaspur 1-A, Industrial Area, Sector-C, Sirgitti, Bilaspur - 495 223. Chhattisgarh	T + 91 7752 252745, 252598 F + 91 7752 252065 E-mail: mv@beml.co.in
Neyveli F-4, Dr. Rajendraprasad Road, Block-27, Neyveli,- 607 803 Tamil Nadu	T/F + 91 4142 268517 T + 91 4142 265517 / 229392 E-mail: ma@beml.co.in
Dhanbad Mouza - Kangalo, Amaghata, Govindpur,KG Ashram Post, Dhanbad Jharkhand – 828 109	T + 91 94711 92023 E-mail:mf@beml.co.in
Hyderabad 3-6-114, Street No.18, Himayat Nagar, Hyderabad - 500 029 Telangana	T + 91 40 2322 7032 / 94907 93117 F + 91 40 23221794 E-mail: rm.hyderabad@beml.co.in
<mark>Kolkata</mark> 35/1A, Taratala Road, Kolkata - 700 088. West Bengal	T + 91 33 2401 5286 / 87 / 98 / 99 F + 91 33 2401 5288 E-mail: rm.kolkatta@beml.co.in
Mumbai 32A, Bazar Road, Near Jain Mandir, Bandra (West), Mumbai, Maharashtra - 400 050	T + 91 22 26431875 / 26435875 F + 91 22 26423928 E-mail: rm.mumbai@beml.co.in
Nagpur No 33, Cement Road, Shivaji Nagar, Nagpur - 440 010, Maharashtra.	T + 91 712 2248435 / 2248343 F + 91 712 2249997 E-mail: mn@beml.co.in
New Delhi Flat E,F,G,H, 'Vandana', 11th Floor, 11, Tolstoy Marg, Connaught Place, New Delhi - 110 001	T + 91 11 2344 3511 / 3528 / 2331 6500 F + 91 11 2332 5085 E-mail: ml@beml.co.in
Ranchi 206/D-1, Bhagirathi, (Behind NCC Campus) Rameshwaram Colony, Bariatu Road, Ranchi, Jharkhand - 834 009	T + 91 651 2540710 / 94311 08531 E-mail: mr@beml.co.in
Sambalpur BEML Complex, NH-6, Panchagachhia, Baraipalli Post, Sambalpur 768 006 Odisha.	T + 91 663 2521604 / 2521389 E-mail: mb@beml.co.in
Singrauli PB No. 5, Jhingurdha Colliery, Singrauli - 486 889 Madhya Pradesh.	T + 91 7805 272668 / 272318 F + 91 7805 272282 E-mail: rm.singrauli@beml.co.in
14	

#### ACTIVITY CENTRES

Bhopal Ground Floor, Hall No.1, Chittod Complex, Zone-1, Maharanapratap Nagar (MP Nagar), Bhopal - 462 011	T + 91 755 2550711 / 8989459753
Panjim BEML Limited, 5/4, Victor Building, Fontanhas, Mala, Panjim - 403 001, Goa	T +91 832 2225135 / 77986 87178
Itanagar C/o. Tobom Riba, H-Sector, Papum Itanagar – 791 113, Arunachal Pradesh	T + 91 94029 34205 / 88372 15852
Kochi No. 39/2122, Chittoor Road, Ernakulam South, Kochi – 682 016	T + 91 484 2375138 E-mail: rm.kochi@beml.co.in
Maihar Maihar, Madhya Pradesh	Mob: +91 79875 53768
Silapathar: Surya Vatika, Amritpur, Silapathar, Assam - 787 059	T +91 95311 29059

#### International Business Division

Flat No. E,F,G, H, 'Vandana' 11<sup>th</sup> Floor, 11, Tolstoy Marg, Connaught Place New Delhi – 110 001 T + 91 11 23316500 F + 91 11 23325085

E-mail: mx@beml.co.in

#### Marketing Division

5th Floor, Unity Building, J.C. Road, Bangalore – 560 002

T + 91 80 22963501/02/07/510/540

F + 91 80 22963541

E-mail: m@beml.co.in mmd@beml.co.in

#### DISTRICT OFFICES

Ahmedabad 99/100, BEML HOUSE, 2nd Street, Azad Society, Ambawadi,	T + 91 79 26445523 / 94264 13620 F + 91 79 26423950
Ahmedabad - 380 015, Gujarat	E-mail: rm.ahmedabad@beml.co.in
Asansol	T + 01 241 2252490
3, Burnpur Road, Asansol - 713 304	T + 91 341 2252480 F + 91 341 2250601
West Bengal	
Bacheli	E-mail: mca@beml.co.in
Behind Central Stores of NMDC Ltd.,	T/F + 91 7857 230005
Depot 5, Bacheli - 494 553.	E-mail: rm.bacheli@beml.co.in
Chhattisgarh	L-mail. m.bacheil@berni.co.m
Bhilai	T + 91 788 2223880
Room no 22/C, BSP Expansion Building,	F + 91 788 2221652
Near Ispat Bhavan, Bhilai 490 001, Chhattisgarh	
Bhubaneswar	E-mail. minb@berni.co.m
252/A, Lewis Road Bhubaneswar - 751 014	T + 91 674 2434427 / 99373 83950
Odisha	E-mail: mbb@beml.co.in
Chandrapur	
Mamidwar, Tiles Factory Compound	T + 91 7172 287230
Ghugus Road, Padoli	F + 91 7172 287560
Chandrapur - 442 406 Maharashtra	E-mail: mnc@beml.co.in
Chennai	
Flat No. 10, Supriya Estates,	T + 91 44 28220844
No.3, Sterling Road, Nungambakkam,	F + 91 44 28257319
Chennai - 600 034, Tamil Nadu,	E-mail: rm.chennai@beml.co.in
Guwahati	$\sim$
No.11, Ward 43, Hengrabari Road,	T + 91 361 2232966
Ganesh Puri, Dispur,	F + 91 361 2232967
Guwahati - 781 006 Assam	E-mail: rm.guwahati@beml.co.in
Hospet No.1431, Manjunatha Complex, Bhagat Singh Nagar, Opp. KSSIDC Indl. Estate,	T/F + 91 8394 230172
Dam Road, Hospet - 583 203, Karnataka	E-mail: rm.hospet@beml.co.in
Jammu	
62C, Block D/C, Gandhi Nagar,	T + 91 191 2459 437
Jammu tawi - 180 004	F + 91 191 2430 447
Jammu and Kashmir	E-mail: mlj@beml.co.in
Kothagudem	
Old Project Planning Department,	T + 91 8744 245572
Near SCCL Corporate Office,	F + 91 8744 245530
Kothagudem - 507 101, Telangana	E-mail: rm.kothagudem@beml.co.in
Leh	
174-B, (Near Royal Enfield Showroom),	T + 91 1982 258828 / 94198 71008
Housing Colony, Leh, Ladakh -194 101	E-mail : mll@beml.co.in
Ramagundam	
Near SCCL TTC, Jawahar Nagar,	
Behind CISF Camp, Godavarikhani - 505 209.	T + 91 8728 248299 / 94408 58441
Peddapalli Dist.,Telangana	E-mail: mhr@beml.co.in
Udaipur	
20-B,Uchhab Bhavan, Bedla Road,	
Fatehpura, Udaipur - 313 001.	T + 91 294 2452054
Rajasthan	E-mail: mwu@beml.co.in
Visakhapatnam	T/F +91 891 2754608 / 83320 5459
No. 8-45-11, 4th Lane,	E-mail : rm.vizag@beml.co.in
Vidyanagar Chinna Waltair Colony	
Visakhapatnam - 530 003, Andhra Pradesh	

www.bemlindia.in

## बी ई एम एल लिमिटेड BEML LIMITED

Schedule 'A' Company under Ministry of Defence, Govt. of India